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(NY-6450)

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DESCRIPTORS: *Combustion chamber gases, *Ignition,
Ignition lag, *Fuels, Knocking, Tests, *Airplane
engines, Combustion, Thermodynamics.

(Machinery--Engines, TT, v. 10, no. 3)

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I. Schmidt, Fritz A. F.
II. Title: Thermodynamic ...
III. FIAT FR 709
IV. PB-33220

Office of Technical Services

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(ARC/Ref: C-4967)

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TURBINES WITH SHOCKLESS LAMINAR FLOW AND
UNTWISTED TURBINE BLADES. [1963] 18p.
Order from SLA \$1.60

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Trans. of MTZ; Motortechnische Zeitschrift (West
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DESCRIPTORS: *Gas turbines, *Axial-flow turbines,
*Turbojet engines, *Turbine blades, Design, Fluid
flow, Mathematical analysis.

A new vortex distribution for axial flow turbines was
described in the theoretical part of this report. It was
pointed out that there aren't any losses at the design
point due to false flow direction, even by using un-
twisted turbine blades, because of constant relative flow
direction over the whole height of the blades.

(Machinery--Propulsion Systems, TT, v. 10, no. 4)

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DESCRIPTORS: *Acetylenes, Low pressure research, Decomposition, Ignition, Inhibition, *Explosions, Pipelines, Safety valves, Cut-off valves, *Towers (Chemistry).

The authors succeeded in inducing explosive or detonative acetylene decomposition in the pressure range between 1.0 and 1.4 atm. abs. by means of an ignition chamber. The irrigated Raschig ring tower must be considered as the safest decomposition

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62-18963

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Office of Technical Services

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NIH 2-1-62

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(SF-1855)

Development of Machine Equipment Construction in Czechoslovak Open-Pit Mines, by H. Schmidt, 6 pp.

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JPRS 13432

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Econ
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Catalytic Dehydrogenation of Hydro-Aromatic
Compounds, by W. Treibs, E. Schmidt

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NIH 1-61-62

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Scientific - Melting, cupola, acid

A-9233

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Scientific - Chemistry, physicochemical,
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February 1953

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Oct 56 CTS

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SLA Tr 1609 Jan 1957

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Apr 1957

SLA tr 1608

Jan 1957

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Royal Jelly in Diet, Prophylaxis and Therapy, by H. Kniel W. Schmidt, 8 pp.

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NIH Tr 4-40

Sci - Med

May 58

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Electrochemical Fluorination. Part III.
Electrofluorination of Olefins in Non-Aqueous
Solvents; The Mechanism of the Anode Reactions,
by H. Schmidt, H. D. Schmidt, 15 pp.

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pp 250-260.

SIA Tr 1664

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1961, pp 44-534
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Sci -

Jul 67

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The Electrochemical Fluorination of Inorganic
Compounds; Anodic Formation of Sulphuryl Fluoride,
by H. Schmidt, H. D. Schmidt, 14 pp.

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S.L.A. Tr 783/1956

Sci - Chemistry
Oct 56 CTS

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Electrochemical Fluorination. Part III.
Electrofluorination of Olefines in Non-Aqueous
Solvents; The Mechanism of the Anodic Reactions,
by H. Schmidt, H. D. Schmidt, 15 pp.

GERMAN, per, ^{Zeits} prakt chem, Vol II, No 4, 1955,
pp 250-260.

SLA Tr 1664

Sci - Chem
Apr 1957

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Electrochemical Fluorination. Part II; Investigation
Into the Anode Reactions Taking Place During the
Electrolytic Fluorination of Carboxylic Acids in Hy-
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S.L.A. Tr 933/1956

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Sci - Chemistry

HEALTHFUL NUTRITION AND THE FOODSTUFFS INDUSTRY,
BY W. JURICH, H. E. SCHMIDT, 8 PP.

GERMAN, PER, DIE LEBENSMITTEL-INDUSTRIE, VOL. X,
NO 9, 1963, PP 268-270.

JPRS 22111

EE-GERMANY
ECON
DEC 63

243.793

TT-63-15656

Schmidt, H. E.
THERMAL CONDUCTIVITY MEASUREMENTS AT
HIGH TEMPERATURES. Special rept. no. 3 on Project
210. [1962] 25p
Contract 037-60-12 RDF
Order from OTS, SLA, or ETC \$2.60 EURAEC-415

Trans. of a rept. from Commissariat à l'Énergie
Atomique, Paris (France) Jun 62. (Abstract available)

DESCRIPTORS: *Reactor fuel elements, *Ceramic
materials, *Uranium compounds, *Plutonium com-
pounds, *Thermal conductivity, High temperature res
research, Test methods, Electron bombardment

The first part of the work consists, in addition to a
brief statement of the problems handled of an outline of
the more usual metrological principles with an indica-
tion of their advantages and their drawbacks. Part two
(Nuclear Physics--Nuclear Engineering, TT, v. 11,
no. 6) (over)

1. Title: Project 210
- I. Schmidt, H. E.
- II. EURAEC-415
- III. European Atomic Energy
Community, Brussels
(Belgium)

10731

Office of Technical Services

Water Hardness and Fluoridation, by H. J. Schmidt,
15 pp.

GERMAN, per, Deut. Zahnärztl. Zschr, Vol IX,
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S.L.A. Tr No 1883

Sci - Chemistry, inorganic
Apr 57

46, 865

Schmidt, H. J.
CALCULATIONS FOR THE HETEROGENEOUS FIRST
ORDER WALL REACTION IN CYLINDRICAL TUBES.
[1963] 5p 7refs
Order from SLA \$1.10

63-18948

Trans. of Chemie-Ing[enieur]-Techn[ik] (West
Germany) 1962, v. 34, p. 841-842.

DESCRIPTORS: Chemical reactions, *Reaction kinetics,
Diffusion, *Fluid flow, Pipes, Laminar flow, Special
functions, Mathematical analysis.

The theoretical precalculation of the influence of flow
and diffusion on the conversion in chemical reactions
up to the present has been successful in few cases. The
special cases solved so far for the case of the heteroge-
neous wall reaction of the first order in cylindrical flow
reactors are briefly compiled. The detailed calculations
(Chemistry--Physical, TT, v. 10, no. 11) (over)

63-18948

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